INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/10293

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F02D41/04, F01N3/24			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
Int.Cl ⁷ F02D41/00, F02D43/00, F02D45/00, F01N3/24			
The state of the s			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2003			
Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	ppropriate, of the relevant passages	Relevant to claim No.
X	JP 11-141388 A (Robert Bosch	GmbH.),	· 1-3
Y A	25 May, 1999 (25.05.99), Page 2, right column, line 40	to page 3, left	5-10
	column, line 7; page 3, right	t column, line 37 to	
	page 5, left column, line 10, lines 11 to 14	; page 5, left column,	
	& DE 1973956 A		
Y	JP 10-220267 A (Toyota Motor	Corp.),	4
A	18 August, 1998 (18.08.98), Full text; all drawings		5-10
	(Family: none)		
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Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to			ne application but cited to
considered to be of particular relevance understand the principle or theory underlying the invention "E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot		erlying the invention	
date considered novel or cannot be considered to involve an inventive "L" document which may throw doubts on priority claim(s) or which is step when the document is taken alone			red to involve an inventive
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such			when the document is
"O" document referring to an oral disclosure, use, exhibition or other means		combination being obvious to a persor	skilled in the art
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed			
Date of the actual completion of the international search 03 December, 2003 (03.12.03) Date of mailing of the international search report 16 December, 2003 (16.12.03)			
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